VPDES PERMIT PROGRAM FACT SHEET - MINOR MODIFICATION

FILE NO: 728

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as an INDUSTRIAL minor modification. Because this is a minor modification processed in accordance with the VPDES permit regulation, 9 VAC 25-31-400, no change in limits, discharge monitoring requirements, special conditions or other changes have occurred except those specifically allowed under the regulatory description of minor modification and described in this fact sheet. Therefore, no information is provided regarding limits or special conditions rationale. There are no changes in stream impacts and no public notice information is included since it is not required. Only information pertinent to the minor modification is provided in this fact sheet which shall serve as an amendment to the fact sheet prepared at permit reissuance that occurred on November 14, 2012.

1. PERMIT NO.: VA0004103 EXPIRATION DATE: November 13, 2017

2. FACILITY NAME AND LOCAL MAILING ADDRESS

FACILITY LOCATION ADDRESS (IF DIFFERENT)

Dominion - Yorktown Power Station 1600 Waterview Road Yorktown, VA 23692

CONTACT AT FACILITY:

CONTACT AT LOCATION ADDRESS

NAME: Laura A. Shumaker

NAME: Cathy C. Taylor
TITLE: Director Electric

TITLE: Environmental Compliance Coordinator

Environmental Services

PHONE: (804) 273-2929 **PHONE**: (757) 898-2555

EMAIL: Cathy.C.Taylor@dom.com

EMAIL: Laura.A.Shumaker@dom.com

3. **OWNER CONTACT:** (TO RECEIVE PERMIT)

NAME:

NAME: C.D. Holley
TITLE: V.P. Fossil & Hydro Systems

FIRM NAME:

CONSULTANT CONTACT:

Operations

COMPANY NAME: (IF DIFFERENT)

ADDRESS: 5000 Dominion Blvd.

ADDRESS:

Glenn Allen, VA 23060

PHONE: (804) 273-2929

PHONE: ()

4. PERMIT DRAFTED BY: DEQ, Water Permits, Tidewater Regional Office

Permit Writer(s): Melinda Woodruff

Date(s): July 5, 2012, July 11, 2013

Reviewed By: Deanna Austin

Date(s): July 11, 2013, 7/17/13

To be reviewed by the water permits facility coordinator if the minor modification is processed by anyone other than the facility coordinator)

() Owner Minor Modification (x) Board Minor Modification
() Change of Ownership/Name [Effective Date:]

6. SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:

Attachment 1 TABLE III(a) - Change Sheet Attachment 2__ Chronology Sheet Attachment 3 Table II - Change for Outfall 008 and 014 Attachment 4 TMP - Change for Outfall 003 and 004 Attachment____ Discharge Location/Topographic Map Attachment____ Schematic/Plans & Specs/Site Map/Water Balance Attachment TABLE I - Discharge/Outfall Description MODIFICATION REQUEST COMPLETE: NA

7. **RECEIVING WATERS CLASSIFICATION:** River basin information.

Outfall No(s): 003

Receiving Stream:

Unnamed Tributary to Chisman Creek

River Mile:

see attachment 10

Basin:

Chesapeake Bay, Atlantic Ocean and Small Coastal

Subbasin: NA
Section: 2d
Class: III
Special Standard(s): None
Tidal: YES
7-Day/10-Year Low Flow: NA
1-Day/10-Year Low Flow: NA

Outfall No(s): 008 and 014

30-Day/5-Year Low Flow: NA

Receiving Stream:

Harmonic Mean Flow:

York River

River Mile:

see attachment 10

Basin:

York River

Subbasin: NA
Section: 1
Class: II
Special Standard(s): a
Tidal: YES
7-Day/10-Year Low Flow: NA
1-Day/10-Year Low Flow: NA
30-Day/5-Year Low Flow: NA

8. **FACILITY DESCRIPTION:** Describe the type facility from which the discharges originate.

THE MODIFICATION CONSISTS OF typographical corrections for monitoring frequency for copper and zinc at outfall 008 and 014 and corrections for TMP requirements for outfall 003. This modification addresses only these items specifically to correct errors found after the reissuance of the current permit.

9. <u>CHANGES TO PERMIT</u>: Use <u>TABLE III(a)</u> to record any changes from the previous permit and the rationale for those changes.

SEE ATTACHMENT _1_

10. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

ATTACHMENT 1

TABLE III(a) CHANGE SHEET

TABLE III(a) VPDES PERMIT PROGRAM Permit Processing Change Sheet

Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

				·····	 		 			
-	Special Co	OTHER CHANGES FROM:						014	008 and	OUTFALL NUMBER
	Special Condition for TMP Part 1.C	GES FROM:						Zinc	Copper and	PARAMETER CHANGED
	art 1.C								1/Year to 1/3 Months	MONITORING LIMITS CHANGED FROM / TO
	Corrected language for repr growth for Outfall 003	CHANGED TO:				-			mara-filosoma.	EFFLUENT LIMITS CHANGED FROM / TO
	reproduction and not								Typographical error	RATIONALE
	7/5/13 MYW	DATE & INITIAL							7/5/2013 MYW	DATE & INITIAL

ATTACHMENT 2
CHRONOLOGY SHEET

VPDES PERMIT PROGRAM

CHRONOLOGY OF EVENTS

APPLICATION RECEIVED		APPLICATION RETURNED	ADDITIONAL INFO REQUESTED	APPLICATION/ADD INFO	APPLICATION/ADD. INFO RECEIVED
NA		NA	NA	NA	NA
na .					
					-
APPLICATION	TO VDH:		VDH COMMENT:		
APPLICATION	TO OWPS:		OWPS COMMEN	rs received:	
APPLICATION	ADMIN. C	COMPLETE:	APPLICATION	TECH. COMPLETE:	
DATE FORWAR	DED TO AD	MIN:			
Date	DESCRIPT hearings	TIVE STATEMENT [CHRONs, etc. affecting per	OLOGY OF EVENTS] (Me	etings, telephone calls, to issuance)	letters, memos,
7/5/13	Zinc fro	om $1/Y$ to $1/3$ months.	Modification for Ch	ll 103 for monitoring fre anges to TMP language for r along with new copy of	Outfall 003.
7/8/2013	Board In	nitiated Modification	draft complete and s	ent out for review and si	gnature.

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ATTACHMENT 3

TABLE II - Outfall 008 and 014

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #008 and 014

handling areas; 014 - service road for intake cooling water pump Outfall Description: Regulated storm water runoff from an industrial activity area; 008 ı unit ω area, ash

SIC CODE: 4911

(x) Final Limits () Int	Interim Limits	Effective Dates -	From: I:	Issuance	To: E	Expiration	
			EFFLU	JENT LIMITATIONS	PIONS	MONITORING REQUIREMENTS [a]	RING NTS [a]
PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	MONTHLY AVERAGE	MUMINIM	MAXIMUM	FREQUENCY	SAMPLE
Flow (MG).	BPJ-14		NĽ	NA	NI	1/Year	Estimate [b]
На	BPJ-14		NA	NL	NL	1/Year	Grab
Total Phosphorus (mg/l)	BPJ		2.0	NA	NA	1/Year	Grab
Total Suspended Solids (mg/l)[c]	BPJ-14	-	NA	NA	NL	1/Year	Grab
TPH (mg/1)[c]	врЈ		NA .	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c] [d]	BPJ.		NA	NA	NL	1/3 Months	Grab
Dissolved Zinc (ug/1)[c][d]	врЈ		NA	NA	NL	1/3 Months	Grab

NA = NOT APPLICABLE; NI = NO LIMIT, MONITORING REQUIREMENT ONLY; I.S. = Immersion Stabilization
1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31). September 30); 4th quarter (October 1 - Dec 1/Year = Between January 1 and December 31.

reported on the DMR. Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be

- [C] [a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
 - Estimate of the total volume of the discharge during the storm event.
- See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons. [d] See Part I.D. for Storm Water Evaluation requirements.

The bases for the limitations codes are: Best Professional Judgment for storm water in category of steam electric facilities (14)

- The basis for the limitations codes are:
 1. Technology (e.g., Federal Effluent Guidelines)
 2. Water Quality Standards (9 VAC 25-260 et. seq.)
 3. Best Professional Judgment

ATTACHMENT 4 TMP

MEMORANDUM

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard

Virginia Beach, VA 23462

SUBJECT: TMP language for Dominion Virginia Power Yorktown Plant (VA0004103)

TO:

Melinda Woodruff

FROM:

Deanna Austin

DATE:

7/8/13

COPIES:

A minor permit modification was initiated to correct TMP permit language concerning the chronic test for <u>Ceriodaphnia dubia</u>. The test type was missing reproduction but contained growth. It has been corrected to include reproduction and remove growth. No other changes were made to the TMP section, therefore only the section where changes were made are included in this memo.

The following toxicity language is recommended for the reissuance of the VA Power –Yorktown permit (VA0004103).

- C. TOXICS MANAGEMENT PROGRAM (TMP)
 - 1. Biological Monitoring for outfalls 002 and 004
 - a. In accordance with the schedule in C.2.below, the permittee shall conduct annual toxicity tests for the duration of the permit.

The permittee shall collect a grab sample of final effluent from outfall 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfall 002 using:

48 Hour Static Acute test using Americamysis bahia

Chronic Static Renewal 7-day Survival and Growth Test with Americamysis bahia

The permittee shall collect a grab sample of final effluent from outfall 004 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. An annual chronic test shall be conducted for outfall 004. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using <u>Ceriodaphnia</u> <u>dubia</u>

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50} Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.
- d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- e. The test dilutions shall be able to determine compliance with the following endpoints:
 - (1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0
 - (2) Chronic NOEC of 100% equivalent to a TUc of 1.0

2. Reporting Schedule

The permittee shall report the results and supply one complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the

schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. Attachment A must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	Conduct first annual TMP test for outfall 002 using Americamysis bahia and for outfall 004 using Ceriodaphnia dubia	By December 31, 2013
(b)	Submit results of all biological tests	Within 60 days of the sample date and no later than January 10, 2014
(c)	Conduct subsequent annual TMP tests for outfalls 002 and 004	By December 31, 2014, 2015, and 2016
(b)	Submit subsequent annual biological tests	Within 60 days of the sample date and no later than January 10, 2015, 2016 and 2017

- 3. Biological Monitoring for Outfall 003
 - a. In accordance with the schedule in C.4.below, the permittee shall conduct semi-annual toxicity tests for the duration of the permit.
 - (1) The permittee shall collect a grab sample of final effluent for acute tests from outfall 003 in the same manner as samples collected for Part 1.A of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit.
 - (2) Chronic testing shall be required when the discharge is continuous for 8 hours or more a day for three consecutive days OR when the discharge occurs for four consecutive days regardless of the amount/time of discharge. The permittee shall submit monthly operational logs documenting days and times of discharge with the toxicity results.

If required, the permittee shall collect 3 grab samples over a 24 hour period for chronic tests from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit.

Semi-annual acute and chronic (if required) tests shall be conducted for outfall 003 using:

48 Hour Static Acute test using Ceriodaphnia dubia

Chronic 3-Brood Static Renewal Survival and Reproduction Test

using Ceriodaphnia dubia

b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50} . Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for reporting. Report the LC50 at 48 hours and the IC25 with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.
- d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- e. The test dilutions shall be able to determine compliance with the following endpoints:
 - (1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0
 - (2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

4. Reporting Schedule

The permittee shall report the results and supply one complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and the outfall 003 operational log. Attachment A must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	Conduct first semi-ann tests for outfall 003 Ceriodaphnia dubia	ual TMP using	By June 3	0, 2013
(b)	Submit results of the	biological	Within 60	days of the

	tests	sample date and no later than July 10, 2013
(c)	Conduct subsequent semi-annual TMP tests for outfalls 003 using <u>Ceriodaphnia</u> <u>dubia</u>	By December 31 and June 30 each year
(d)	Submit subsequent semi-annual biological tests	Within 60 days of the sample date and no later than January 10 and July 10 of each year